

California MLPA South Coast Study Region
Description of Marine Protected Areas (MPAs) in Draft MPA Array Lapis B
Created March 4, 2009
Revised, March 18, 2009

Name of Array: Lapis_B_Round 1_090311
Author: Lapis Work Group

Total number of MPAs/closures: **57**
Number of SMRs: 34
Number of SMCAs: 13
Number of SMPs: 7
Number of Military Closures: 3

MPA Name	MPA ID	Bioregion	MPA Boundaries (Exact or Approximate)	Designation	Level of Protection	Proposed Take Regulations	Other Proposed Regulations
Point_Conception_SMR_LAP_B_1	2960	North Mainland	North: mean high tide line South: state waters line East: Gato, use 120 22' West: landmark - lighthouse	SMR	TBD	All take is prohibited	None Specified
Refugio_SMCA_LAP_B_1	5779	North Mainland	Retains existing boundaries.	SMCA	TBD	Prohibits all recreational take except for chiones, clams, cockles, rock scallops, native oysters, crabs, lobsters, ghost shrimp, sea urchins, mussels, worms and finfish. Prohibits all commercial take except for algae (except giant kelp and bull kelp); crabs, ghost shrimp, jackknife clams, sea urchins, worms and finfish.	None Specified
Naples_Coal_Oil_Point_SMR_LAP_B_1	5542	North Mainland	North: mean high tide line South: state waters line East: 119 53' West: 119 58'	SMR	TBD	All take is prohibited	None Specified
UCSB_SMCA_LAP_B_1	5541	North Mainland	North: mean high tide line South: state waters line East: 119 50' West: 119 53'	SMCA	TBD	Lobster: Traps / Pots: commercial, Lobster: Diving: recreational, Urchin: Diving: commercial, Pacific Bonito: Spear: recreational, White Seabass: Spear: recreational. Also, commercial take of kelp (respecting existing lease) and crabs. Recreational diving (spear) for pelagic finfish, yellowtail. Recreational diving, hand take of lobsters. (No hoop or other nets, no traps.)	None Specified

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Point_Conception_SMR_LAP_B_1	None Specified	Rocky habitat, Upwelling, Rocky bottom and kelp beds, Oil seeps (probably 2nd largest area of seeps on the coast), One of the largest squid spawning areas is in Coho Bay, Surfgrass, Sandy beaches, Birds roost on the cliffs	Important eastern boundary at Gato - if go any further east then really starts to affect the sportfishing fleet and would have a large socioeconomic impact. Relatively non-controversial area and would be a strong player in an array of MPAs. Current runs back to islands from here so there's not a lot of connectivity to MPAs north of here.
Refugio_SMCA_LAP_B_1	None Specified	Maintains existing MPA.	Want to keep Isthmus Reef out of the reserve because it's similar to offshore rocks in the reserve so offers an opportunity for comparison study. Don't move line west because lots of boat traffic into Two Harbors. So areas out from there are heavily used
Naples_Coal_Oil_Point_SMR_LAP_B_1	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-3,O-4,O-5), G6: (O-3,O-4)	Multiple Key habitats including shallow and deep reefs and sandy bottom, kelp, surf grass, oil seeps, 3 protected estuary mouths, Chumash cultural sites, wind driven upwelling, UCSB directly onshore for monitoring, study and help in enforcement, excellent public access, surfing, kayaks and swimming.	None Specified
UCSB_SMCA_LAP_B_1	G1: (O-1,O-2,O-3), G2: (O-1,O-4), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-3,O-4,O-5), G6: (O-3,O-4)	UCSB continuation of Naples_Coal_Oil_Point_SMR_LAP_B_1 but allowing take of lobster, crab, kelp and urchins for comparison and in recognition of existing kelp lease	Design recognizes existing kelp lease and importance of local lobster and urchin harvest. Connects estuaries and allows MPA scientific comparison with clustered SMR.

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Goleta_Slough_SMR_LAP_B_1	5752	North Mainland	Retains existing boundaries.	SMR	TBD	All take is prohibited	None Specified
Carpenteria_SMR_LAP_B_3	5544	North Mainland	North: mean high tide line South: state waters line East: 119 28' West: 119 33'	SMR	TBD	All take is prohibited	None Specified
Carpinteria_Salt_Marsh_SMR_LAP_B_1	5754	North Mainland	None Specified	SMR	TBD	All take is prohibited	None Specified
Mugu_SMCA_LAP_B_1	5522	North Mainland	North: mean high tide line South: state waters line East: 119 03' West: 119 06'	SMCA	TBD	Commercial and recreational surface take with hook and line of pelagic finfish, and bonito.	None Specified
Mugu_Lagoon_SMR_LAP_B_1	5755	North Mainland	All of Mugu Lagoon within study region boundary	SMR	TBD	All take is prohibited	None Specified
Big_Sycamore_Canyon_SMR_LAP_B_1	5780	North Mainland	Retains existing boundaries.	SMR	TBD	All take is prohibited	Swimming, wading, diving, or using any diving equipment are prohibited (exceptions apply). Other restrictions exist regarding: boating, firearms, public entry, pesticides/herbicides, litter, aircraft, pets and scientific collection.

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Goleta_Slough_SMR_LAP_B_1	None Specified	Included existing MPA, increases protection.	None Specified
Carpenteria_SMR_LAP_B_3	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-2,O-3,O-4,O-5), G6: (O-1,O-3,O-4)	Rocky reefs, Kelp, surf grass, Native American submerged site and maritime heritage sites, world class heritage surf spot, cobble reef at Rincon, Carpenteria estuary mouth, multiple habitats, soft and hard bottom, oil seeps	Provides connectivity to south and islands, retention zones and guarantees forage for migratory and local birds and other marine life.
Carpinteria_Salt_Marsh_SMR_LAP_B_1	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-2,O-3,O-4,O-5), G6: (O-1,O-3,O-4)	One of the most undamaged estuary systems, designated as a University of California Natural Reserve. Is habitat for myriad animal and plant species that listed e.g. salt marsh bird's beak, migratory waterfowl, light-footed clapper rail, halibut, leopard sharks.	None Specified
Mugu_SMCA_LAP_B_1	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3,O-4), G3: (O-1), G4: (O-1,O-2), G5: (O-1,O-3,O-4,O-5), G6: (O-3,O-4)	Clean watershed, unpopulated, unique wild coast in southern California, with sandy bottom biota at all key habitat depths, submarine canyon, upwelling, shipwreck, grunion spawning, captures Mugu lagoon and salt marsh, far from ports, little economic impact. The ASBS that covers Malibu starts at Mugu Harbor seal rookery and haulout. The encompassed submarine canyon extends closer to shore than any other in study region. Includes portions of rockfish conservation area. Incorporated Mugu Lagoon mouth.	Allows for some pelagic trolling take while still protecting estuary-marine connection and soft bottom offshore. Allows for military area on west boundary.
Mugu_Lagoon_SMR_LAP_B_1	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-2,O-3,O-4,O-5), G6: (O-1,O-3,O-4)	The largest estuarine lagoon in SoCal. High concentration of birds and bird species, marine and estuarine fish.	None Specified
Big_Sycamore_Canyon_SMR_LAP_B_1	None Specified	Maintains existing MPA.	None Specified

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Point_Dume_SMR_LAP_B_1	5524	North Mainland	North: mean high tide line South: state waters line East: 118 47', in upper northeast corner diagonal line is to avoid pier (flush with adjoining SMCA) West: 118 51'	SMR	TBD	All take is prohibited	None Specified
Malibu_SMCA_LAP_B_1	5523	North Mainland	North: mean high tide line South: state waters line East: West: 118 47', in upper northeast corner diagonal line is to capture pier (flush with adjoining SMR)	SMCA	TBD	Lobster: Diving: recreational, Urchin: Diving: commercial, Urchin: Diving: recreational. All recreational fishing and diving from shore or man-powered craft. No night lights, hoop nets or traps. Clarifying comments added during review period: Commercial hand harvest of urchins only. Recreational hand harvest diving for lobster only. All recreational spear fishing shore-based or utilizing non-motorized craft, All hook-and-line for pelagic finfish, bonito and white seabass >30m depth.	None Specified
Malibu_Creek_Estuary_SMR_LAP_B_1	5756	North Mainland	All of Malibu Creek Lagoon within study region boundary.	SMR	TBD	All take is prohibited	None Specified
Palos_Verdes_SMR_LAP_B_2	5636	South Mainland	North: 33 49' South: 33 46' East: mean high tide line West: state waters line	SMR	TBD	All take is prohibited	None Specified

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Point_Dume_SMR_LAP_B_1	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-2,O-3,O-4,O-5), G6: (O-1,O-3,O-4)	All key habitats at multiple depths to 500 meters, hard bottom, shallow and deep to 460 meters, and soft, sandy to 500 meters with rocky intertidal and subtidal, good wind pressure average for upwelling, strong nutrient upwelling at submarine canyon, kelp, surfgrass, seal haul out, whale scratch zone, bird nesting on cliffs; retention areas on both sides of point, good biodiversity, good water clarity, quality, far from nearest port, recreational opportunities, access/ launch sites for ecotours, diving, surfing, swimming, kayaks; protects excellent primary and secondary forage production and retention of phytoplankton, algae, spawning and juvenile habitat for invertebrates, anchovies, squid etc forage base for likely to benefit species	None Specified
Malibu_SMCA_LAP_B_1	G1: (O-1,O-2,O-4,O-5), G2: (O-1,O-3,O-4), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-2,O-3,O-4,O-5), G6: (O-1,O-3,O-4)	Sector of Santa Monica Bay cluster devoted to marine conservation, recreation, and recreational fishing and diving from shore or man-powered water craft only. Protects forage species that support estuary bird population and other species. Native American and surfing cultural heritage sites, 9 Key and unique habitats, estuary, fresh water plumes, Steelhead spawn at Malibu creek, large rare cobble reef cove, good public access state parks on shore, Pepperdine University overlook for scientific monitoring and study, close proximity for LA's 15 million Malibu visitors a year.	Long distance from ports, minimum socioeconomic impacts on fishery and maximum benefits to tourism.
Malibu_Creek_Estuary_SMR_LAP_B_1	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-5), G6: (O-3,O-4)	Estuary at Malibu Creek, a historic steelhead spawning, cobble creek which provides the stones for the offshore cobble reef at Malibu Surfing Point.	Estuary subject to extensive cleanup and restoration.
Palos_Verdes_SMR_LAP_B_2	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-1,O-2), G4: (O-1,O-2), G5: (O-2,O-3,O-4,O-5), G6: (O-1,O-3,O-4)	This SMR captures high quality representatives of most of the key habitats present in the south mainland bioregion, including deep submarine-canyon and hard-bottom habitat and surfgrass beds. The area acts as a larval source and sink, nursery and aggregating area for a wide variety of marine life from lobster to white seabass to dolphins. It is connected via currents to Catalina and the North Mainland Bioregion.	In addition, shape takes into account existing closure to most types of commercial fishing in Santa Monica Bay (Fishing Block 19A) and is an attempt at limiting economic losses to commercial lobster industry. Also avoids the most heavily contaminated sediment around Whites Point outfall. Finally, includes several PISCO, CRANE and ReefCheck monitoring sites, enhancing the monitoring potential for proposed MPA. Is a complex with PV_Question_SMR_LAP_B_3.

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Palos_Verdes_SMCA_LAP_B_3	5637	South Mainland	North: 33 46' South: 33 44' East: mean high tide line West: state waters line	SMCA	TBD	Lobster: Traps / Pots: commercial Lobster: Hoop Net: recreational, Lobster: Diving: recreational. Would allow lobster (except in areas where it's already closed for lobster) and Crab commercial and probably urchins.	None Specified
Point_Fermin_SMP_LAP_B_1	5760	South Mainland	Retains existing boundaries.	SMP	TBD	Prohibits all recreational take except finfish and lobster only. Prohibits all commercial take.	None Specified
Bolsa_Chica_SMP_LAP_B_1	5758	South Mainland	Retains existing boundaries.	SMP	TBD	Prohibits take of all living marine resources is prohibited except the recreational hook and line take of species other than marine aquatic plants from designated areas around outer Bolsa Bay.	Boating, swimming, wading, and diving are prohibited. Other restrictions exist regarding: time of entry, accessible areas and allowed management activities.
Newport_Beach_SMCA_LAP_B_1	5555	South Mainland	North: mean high tide line South: 1 mile out from coast East: 117 52' West: 117 56'	SMCA	TBD	All take is prohibited from the intertidal. Commercial take of lobster, crab, urchin and Kellet's weik from the subtidal	None Specified
Upper_Newport_Bay_SMR_LAP_B_1	5762	South Mainland	Retains existing boundaries.	SMR	TBD	All take is prohibited	Restrictions exist regarding: swimming areas, boat speed, shoreline access and access fees.
Crystal_Cove_SMP_LAP_B_1	5638	South Mainland	North: mean high tide line South: state waters line East: 117 49' West: 117 52' Same as terrestrial state park boundaries and flush with Newport_Beach_SMCA_LAP_B_1 on west side.	SMP	TBD	Boat based catch and release recreation. Shore based spearfishing, hand take of lobster and urchins. No traps or nets.	None Specified

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Palos_Verdes_SMCA_LAP_B_3	G1: (O-1,O-2,O-5), G2: (O-1,O-2,O-3,O-4), G3: (O-1,O-2), G4: (O-1,O-2), G5: (O-1,O-2,O-3,O-4,O-5), G6: (O-1,O-3,O-4)	Second best reef structure on PV. Long term monitoring sites, would allow for comparison between habitats here and at the other MPA in this complex. Includes a kelp restoration site.	Is a complex with PV_Question_SMR_LAP_B_2. Hopes to minimize economic impact to shore-based fishermen by closing an area that is harder to access from the shore. This area also avoids the most heavily contaminated sediment from the Whites Point outfall.
Point_Fermin_SMP_LAP_B_1	None Specified	Maintains existing MPA.	None Specified
Bolsa_Chica_SMP_LAP_B_1	None Specified	Maintains existing MPA.	None Specified
Newport_Beach_SMCA_LAP_B_1	G1: (O-1,O-3,O-4,O-5), G2: (O-4), G3: (O-1), G4: (O-1), G5: (O-1,O-4,O-5), G6: (O-3,O-4)	Intertidal protection of invertebrates, connectivity to Newport Bay, low socioeconomic impacts while protecting vital habitat and expanding existing MPA (Robert E Badham) to meet DFG and science guidelines.	Existing enforcement, education and outreach for the intertidal zone. Part of cluster (Newport_Beach_SMCA_LAP_B_1, Crystal_Cove_SMP_LAP_B_1, Laguna_Dana_Point_SMR_LAP_B_1, Dana_Point_SMCA_LAP_B_1)
Upper_Newport_Bay_SMR_LAP_B_1	None Specified	Included existing MPA, increases protection.	None Specified
Crystal_Cove_SMP_LAP_B_1	G1: (O-1,O-2,O-4,O-5), G2: (O-4), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-3,O-4,O-5), G6: (O-1,O-3,O-4)	Replaces existing MPA fronting Crystal Cove State Park, currently a State designated Underwater Park. Multiple key habitats and high recreational use, both intrinsic and consumptive.	SMP devoted to compatible recreational activities, ideal for scientific comparison to SMCA at Dana Point and Laguna SMR. Adjacent to terrestrial State Park with existing enforcement, education and public outreach mechanisms. Part of cluster (Newport_Beach_SMCA_LAP_B_1, Crystal_Cove_SMP_LAP_B_1, Laguna_Dana_Point_SMR_LAP_B_1, Dana_Point_SMCA_LAP_B_1)

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Laguna_Dana_Point_SMR_LAP_B_1	5639	South Mainland	North: 117 49' South: landmark - Dana Point East: mean high tide line West: state waters line	SMR	TBD	All take is prohibited	None Specified
Dana_Point_SMCA_LAP__B_1	5640	South Mainland	North: landmark - Dana Point (flush with Laguna_Dana_Point_SMR_LAP__B_1), mean high tide line South: state waters line East: west end of jetty West: state waters line	SMCA	TBD	Lobster: Traps / Pots: commercial. Pelagic Finfish: Spear: recreational, Urchin: Diving: commercial. Recreational pelagic finfish (hook and line and spear >50m). Shoreline fishing and intertidal take prohibited. (Senate bill 716)	None Specified
Doheny_SMCA_LAP_B_1	5784	South Mainland	Retains existing boundaries.	SMCA	TBD	Prohibits all recreational take except chiones, clams, cockles, rock scallops, native oysters, crabs, lobsters, ghost shrimp, sea urchins, mussels, and worms, and finfish. <u>Commercial take is allowec</u>	None Specified
Doheny_Beach_SMCA_LA_P_B_1	5782	South Mainland	Retains existing boundaries.	SMCA	TBD	Prohibits all recreational take except lobster; rockfish (family Scorpaenidae), greenling, lingcod, cabezon, yellowtail, mackerel, bluefin tuna, kelp bass, spotted sand bass, barred sand bass, sargo, croaker, queenfish, corbina white seabass, opaleye, halfmoon, surfperch (family Embiotocidae), blacksmith, barracuda, California sheephead, bonito, California halibut, sole, turbot and sanddab. Finfish may only be taken by hook and line or by spear. Prohibits all commercial take except lobster.	None Specified

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Laguna_Dana_Point_SMR_LAP_B_1	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-2,O-3,O-4,O-5), G6: (O-1,O-2,O-4)	Coast shoreline protection, multiple key rocky and sandy intertidal, subtidal and parallel offshore reef habitats, kelp, surf grass; three geologic formations create a series of coves and bays with sandy beaches and rocky-reef headlands unique in SC region. Eight existing MPAs and management regimes will be encompassed in cluster anchored by reserve.	Great shoreline access, city dependent on year round beach tourism, located between two small boat harbors, historic heavy recreational use by divers, shore fishers, private boats, both consumptive and non, surfers and swimmers. Current county-wide cooperation in enforcement, education and public outreach mechanisms. Part of cluster (Newport_Beach_SMCA_LAP_B_1, Crystal_Cove_SMP_LAP_B_1, Laguna_Dana_Point_SMR_LAP_B_1, Dana_Point_SMCA_LAP_B_1)
Dana_Point_SMCA_LAP_B_1	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-2,O-3,O-4,O-5), G6: (O-1,O-2,O-3,O-4)	Rocky shoreline/intertidal and subtidal with deep reef and headland, persistent kelp and surf grass, the best reef/depth habitat combination between two long sandy stretches southward to Carlsbad and north to Palos Verdes. Wind-sheer upwelling, larvae retention on both sides of the point maintain biomass and bio-diversity, historic great fishing.	Nearness to Dana Point harbor, existing monitoring and enforcement, importance of allowed lobster and urchin fisheries, edge spillover from reserve, opportunities for scientific study, importance to tourism economy of local cities. Part of cluster (Newport_Beach_SMCA_LAP_B_1, Crystal_Cove_SMP_LAP_B_1, Laguna_Dana_Point_SMR_LAP_B_1, Dana_Point_SMCA_LAP_B_1)
Doheny_SMCA_LAP_B_1	None Specified	Maintains existing MPA.	None Specified
Doheny_Beach_SMCA_LAP_B_1	None Specified	Maintains existing MPA.	None Specified

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San_Clemente_San_Onofre _SMP_LAP_B_1	5553	South Mainland	Very rough boundaries North: San Clemente State Park South: San Onofre Creek wetland/lagoon (03/11/09 - Boundary was modified in MarineMap to be consistent with the stated south boundary and to come run south from wetland/lagoon out 1,000 feet) East: mean high tide line West: Tried to anchor on lat/long lines but these were not super accurate/exact. Trying to hit about 1,000 feet offshore.	SMP	TBD	Lobster: Diving: recreational, Urchin: Diving: recreational. Hand take of legal lobster and urchins. No traps or nets.	None Specified
Agua_Hedionda_Lagoon_S MCA_LAP_B_1	5745	South Mainland	Flush with the Agua Hedionda Lagoon SMR at the northern end and extends out to lagoon mouth.	SMCA	TBD	Fishing	Power plant, desalinization plant, mariculture of shellfish, and Hubbs white seabass hatchery, yacht marina, water ski marina, YMCA dock.
Agua_Hedionda_Lagoon_S MR_LAP_B_1	5651	South Mainland	Back end of the lagoon to the existing buoy line. Boundary meant to be flush with adjoining SMCA.	SMR	TBD	All take is prohibited	None Specified
Ponto_Batequitos_Estuary_ SMP_LAP_B_1	5646	South Mainland	North: 33 06' South: 33 03' East: mean high tide line West: state waters line	SMP	TBD	Recreational hand take of lobster, legal slot size (commercial regs), no traps or nets. Shore hook and line fin-fishing. Dive spearing of pelagic finfish. Recreational fishing for pelagic finfish. All take is prohibited of invertebrates.	None Specified
Batequitos_Lagoon_SMP_L AP_B_1	5648	South Mainland	All of Batequitos Lagoon within study region boundary.	SMP	TBD	Recreational take of finfish allowed.	Boating, swimming, wading, and diving are prohibited. Other restrictions exist regarding: allowed management activities.

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San_Clemente_San_Onofre_SMP_LAP_B_1	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3,O-4), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-3,O-4,O-5), G6: (O-3,O-4)	Rare 2.4 mile long inter and subtidal Cobble reef at the confluence of pristine watersheds San Mateo (steelhead spawning) and San Onofre Creeks. 2 small wetland lagoons, artificial reef, extensive kelp, surfgrass, San Clemente Rocks, surfing heritage and NA heritage sites, State parks lining shore. State parks designated future underwater park. 1.2 million visits a year, excellent public access, camping.	Links San Clemente and San Onofre State Parks, management in place. Conforms to DOD requirements for Camp Pendleton inclusion. Only US mainland site of World Championship Tour professional surfing. Ten great surf spots.
Agua_Hedionda_Lagoon_SMCA_LAP_B_1	G1: (O-1,O-3,O-4), G2: (O-1,O-2,O-3,O-4), G3: (O-1), G4: (O-1,O-2), G5: (O-1,O-4), G6: (O-3,O-4)	A multiuse lagoon with a viable ecosystem, Carlsbad's chief marine asset. Existing tidewater gobi reserve in back bay.	Existing management paid for by the power plant and various authorities. In place funding and management for all potential DFG responsibilities except existing ones. Multiple uses impact blunted by the increased water flow of power plant intake. Somehow works and Carlsbad is proud of this lagoon. The entire lagoon is a complex of two MPAs; Agua Hedionda Lagoon SMCA and Agua Hedionda Lagoon SMR.
Agua_Hedionda_Lagoon_SMR_LAP_B_1	None Specified	Expands existing Agua Hedionda Lagoon SMR to the existing buoy line at the request of the managing entity.	The entire lagoon is a complex of two MPAs; Agua Hedionda Lagoon SMCA and Agua Hedionda Lagoon SMR.
Ponto_Batequitos_Estuary_SMP_LAP_B_1	G1: (O-1,O-2,O-4,O-5), G2: (O-1,O-2,O-3,O-4), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-2,O-3,O-4,O-5), G6: (O-1,O-3,O-4)	SMP dedicated to recreational non and consumptive use by residents and visitors, complementary to the adjacent SMR at Swamis, with the same 7 Key and Unique habitats, including kelp, surf grass, fresh water plumes and grunion spawning, water quality. Habitats less concentrated, less rocky relief than SMR. Ideal for deliver of SMR spillover to rec fishermen and divers. Fronts the mouth of Batequitos Lagoon SMP and Ponto State park beaches.	Comparative cluster study opportunity with SMR to south and SMCA south of reserve with contrasting fishing regs. Provides connectivity of lagoons and some protection of species that use them, as well as the offshore inhabitants; guarantees local forage of small pelagics for estuary birds and other dependent species. State Park adjacent, camping, excellent public access. Palomar and Mira Costa Colleges near as well as UCSD, Scripps Institute of Oceanography.
Batequitos_Lagoon_SMP_LAP_B_1	G1: (O-1,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-1,O-2), G4: (O-1,O-2), G5: (O-1,O-3,O-4,O-5), G6: (O-3,O-4)	Existing SMP to remain, boundary extended to ocean. Adjacent to terrestrial state park. Permanent opening to sea, lots of birds.	Foundation management in place.

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Swamis_San Elijo_SMR_LAP_B_1	5645	South Mainland	North: 33 03' South: 33 00' East: mean high tide line West: state waters line	SMR	TBD	All take is prohibited	None Specified
San_Elijo_Lagoon_SMP_LA P_B_1	5649	South Mainland	All of San Elijo Lagoon within study region boundary	SMP	TBD	Recreational take of finfish allowed.	Boating, swimming, wading, and diving are prohibited. Other restrictions exist regarding: allowed management activities.
San_Dieguito_SMCA_LAP_ B_1	5647	South Mainland	North: 33 00' South: 32 58' East: mean high tide line West: state waters line	SMCA	TBD	Lobster: Traps / Pots: commercial Urchin: Diving: commercial	None Specified
San_Dieguito_River_Park_ SMR_LAP_B_1	5650	South Mainland	All of Dieguito Lagoon within study region boundary	SMR	TBD	All take is prohibited	None Specified

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Swamis_San Elijo_SMR_LAP_B_1	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3,O-4), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-2,O-3,O-4,O-5), G6: (O-1,O-2,O-3,O-4)	SMR element of North San Diego County cluster providing biological connection between the permanently open outlets of three healthiest estuaries, the existing San Dieguito River SMP, San Elijo Lagoon SMP, and Batequitos Lagoon SMP; SMR includes two existing ocean SMCA's at Encinitas and San Elijo fronting state parks and a large campground. Included are three large persistent kelp forests and extensive surf grass beds between kelp and shore in both sub and intertidal zones; several Key habitats, including shallow and deep rocky reef, sandy intertidal to 200 meters, grunion spawning and some rocky intertidal shoreline, with good water quality. There are multiple public access points and a dozen great surf spots, Native American submerged cultural sites, large parking lots serving Beach tourism based local economies including retail surf shops and manufacturing, restaurants and hotels, all close to UCSD, Palomar and Mira Costa colleges.	Concieved of as a cluster of MPAs, with the SMR replacing two existing SMCAs between San Elijo Lagoon mouth (Cardiff) and D Street in Encinitas, a contiguous reef and kelp forest, with best San Diego surfgrass habitat. Simple regulations in complementary adjacent SMP and SMCA. The rocky reef habitat in North San Diego county does not have the vertical relief of the study areas finest, is less biodiverse and requires a larger area to capture species for a lifecycle, but has extensive surf grass beds, important for all larvae retention, protection and growth, and favored lobster habitat. The sandy areas at the lagoon mouths were historically productive halibut fishing grounds. Water quality is very good as no ports, big cities or industrial pollution. The coastal cities depend economically on coastal tourism and local suburban coastal beach access and use.
San_Elijo_Lagoon_SMP_LAP_B_1	G1: (O-1,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-1,O-2), G4: (O-1,O-2), G5: (O-1,O-3,O-4,O-5), G6: (O-3,O-4)	Existing estuary SMP to remain as is, extending to ocean at permanent opening.	Lagoon foundation does maintenance and enforcement, outreach and education. Visitors center, trails, signs. Adjacent state park.
San_Dieguito_SMCA_LAP_B_1	G1: (O-1,O-2,O-3,O-5), G2: (O-1,O-2,O-3,O-4), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-3,O-4,O-5), G6: (O-1,O-3,O-4)	This SMCA encompasses 8 key habitats and a lagoon mouth with fresh water plume, with rocky habitats from 0 to 200 meters and sandy to 330 meters, persistent kelp and surf grass. Part of the North County lagoon/kelp/surf grass cluster, it provides protection for grunion, invertebrates, reef fish and species that use the lagoon, while allowing some fishing of commercial lobster and urchins.	Provides local protection for small coastal pelagics, critical storage for birds and other local and San Dieguito SMR estuary species. Easy enforcement.
San_Dieguito_River_Park_SMR_LAP_B_1	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-1,O-2), G4: (O-1,O-2), G5: (O-1,O-3,O-4,O-5), G6: (O-3,O-4)	Existing SMP, a restoration of the San Dieguito River Park estuary as mitigation for the San Onofre Nuclear Power plant. To be designated a SMR. 151 acres of lagoon and estuary, 75 acres wetlands and watershed.	Existing administration and finance for maintenance and research for 40 more years, to be made permanent with a trust fund. San Diego River Park directors voted for SMR designation February 16, 2009.

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La_Jolla_SMR_LAP_B_1	5644	South Mainland	North: 32 54' South: 32 48' East: mean high tide line West: state waters line	SMR	TBD	All take is prohibited	None Specified
La_Jolla_SMR_LAP_B_1 (continued)	5644						
South_San_Diego_Bay_SMR_LAP_B_1	5643	South Mainland	North: Diagonal line from Sweetwater Marsh entrance on east to north end of cove on west side of the bay South: study region boundary East: study region boundary West: study region boundary	SMR	TBD	All take is prohibited	None Specified
Tijuana_SMR_LAP_B_1	5641	South Mainland	North: 32 34' South: state waters line East: mean high tide line West: state waters line	SMR	TBD	All take is prohibited	None Specified

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La_Jolla_SMR_LAP_B_1	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-2,O-3,O-4,O-5), G6: (O-1,O-2,O-3,O-4)	La Jolla Cove is #1 recreational non-consumptive tourist destination in study area, serving millions of divers, kayaks, surfers, swimmers, paddlers, direct small boat launch, & shoreline observation with dozens of direct shore access points along proposed SMR. Rocky reef from intertidal to 100 m is largest & most biodiverse in study region with most vertical relief. Ten key habitats including deep sub-marine canyon with two branches, 1 with hard and 1 soft bottomed; upwelling canyon nutrients form food web base, attracting pelagics small & large. There is a shift in the sand literal at La Jolla Canyon north/south line, from fine to coarse, with shift in biota. Sheltered N cove is leopard shark & squid spawning & rearing area. Soft fine-grained intertidal & subtidal flats to north of cove complement rocky reef with an historic host of soft bottom species. Important Native American ceremonial sites dot Cove.	This is a non-consumptive tourist mecca dependent on a vibrant nearshore marine ecosystem. Scripps Institute of Oceanography and UCSD overlook most of the SMR and can both monitor, study and help enforce the simple regulations. A complete contiguous rocky reef habitat SMR, isolated by spacious sandy terrain is required in the MPA network coastal array to provide valid 3-way performance study comparison with an entirely fished contiguous rocky reef, and/or MPA-divided, partially-fished contiguous rocky reefs like those on the islands. Ease of enforcement/compliance is optimal in undivided-habitat, geographically-distinct MPA.
La_Jolla_SMR_LAP_B_1 (continued)		Windansea's surf heritage rocky reef breaks, with Blacks & Shores on soft bottom, second the list of submerged cultural resources. Marine ecosystem unmatched for beauty, clarity, water quality & biologic diversity, with thriving local onshore economy historically focused on tourism.	
South_San_Diego_Bay_SMR_LAP_B_1	None Specified	Lots of eelgrass (80% of eelgrass in bay), Sweetwater Reserve, nature center, educational stuff, south bay protected area, marsh at edge, leave salt flats alone, part of fish and wildlife reserve. Green turtles would benefit, intertidal mudflats, salt marsh on east side, two least tern preserves and two federal reserve areas, lots of shorebirds and pelagic birds. Already some enforcement and harbor patrol is there.	Just south of DoD interests, already 5 mph zone but needs more enforcement. Consider moving lines to not include harbors and harbor access.
Tijuana_SMR_LAP_B_1	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-3), G3: (O-1,O-3), G4: (O-1,O-2), G5: (O-1,O-2,O-3,O-4,O-5), G6: (O-3,O-4)	Largest south coast region offshore cobble reef 3 by 3 km, persistent kelp bed, surf grass, surfing heritage site, furthest south larvae deposit and retention center for unique species from Mexican waters, northerly longshore current, start of south mainland bioregion which extends to Palos Verdes; mouth of important Tijuana River estuary reserves, with bird sanctuary, endangered species, freshwater plume; five key habitats included in SMR. Furthest from San Diego Harbor and meets the southern CA-Mexico boundary.	None Specified

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Blue_Cavern_SMR_LAP_B_1	5592	East Channel Islands	North: state waters line South: mean high tide line East: landmark - Blue Cavern Point West: south side of Fisherman Cove and diagonally to buoy and straight north to state waters line from the buoy (Trying to avoid Isthmus Reef and still capture Ship Rock)	SMR	TBD	All take is prohibited	None Specified
Farnsworth_Bank_SMR_LAP_B_2	5594	East Channel Islands	North: 33 22' South: possibly China Point? East: mean high tide line West: state waters line	SMR	TBD	All take is prohibited	None Specified
Avalon_Dive_Park_SMR_LAP_B_1	5653	East Channel Islands	North: landmark - kayak rental at Descanso Beach South: end of jetty East: out 300 feet following coastline West: mean high tide line (same footprint as existing underwater park)	SMR	TBD	All take is prohibited	No anchor zone.
Lover's Cove_SMR_LAP_B_1	5750	East Channel Islands	Retains existing boundaries.	SMR	TBD	All take is prohibited	None Specified
Begg_Rock_SMR_LAP_B_1	5619	West Channel Islands	All state waters around Begg Rock.	SMR	TBD	All take is prohibited	None Specified
San Nicolas Pending Military Closure	5618	West Channel Islands	See MarineMap	Undesignated	TBD	All take is prohibited, no entry	None Specified
San Clemente Pending Military Closures 1	5616	East Channel Islands	See MarineMap	Undesignated	TBD	All take is prohibited, no entry	None Specified
San Clemente Pending Military Closures 2	5614	East Channel Islands	See MarineMap	Undesignated	TBD	All take is prohibited, no entry	None Specified
Richardson Rock_SMR	5572	West Channel Islands	See MarineMap	SMR	TBD	All take is prohibited	None Specified

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Blue_Cavern_SMR_LAP_B_1	None Specified	Warmer water habitat on the partly sheltered part of island. Captures Ship Rock which is unique because it is farther offshore than other rocks and has a very diverse profile in the water and is, therefore, important for many different species. There is also persistent kelp. Expands and existing MPA. Ship Rock - most unique offshore rock, more productive, less sediment ocean water, high relief rocky slopes to sandy bottom only place where find many different species, premier destination for divers and underwater photographers, and there is a shipwreck there.	Want to keep Isthmus Reef out of the reserve because it's similar to offshore rocks in the reserve so offers an opportunity for comparison study. Don't move line west because lots of boat traffic into Two Harbors. So areas out from there are heavily used by these folks and this reserve would detrimentally affect them and increase congestion out of Two Harbors in the still open areas.
Farnsworth_Bank_SMR_LAP_B_2	None Specified	Pinniped populations, seabirds, and purple coral is present. Includes Ben Weston, and sandy bottom habitat.	Trying to meet SAT size guidelines. All around Catalina is important for lobster and CPFV. Concern about extending MPAs out to 3 mile zone because people fish all around island so hard to have areas that you can't traverse with your gear in the water. Need to leave corridor for them.
Avalon_Dive_Park_SMR_LAP_B_1	None Specified	The area is currently a city underwater park (same footprint as the current park). It is a heavy non-consumptive use area, especially by divers, and would like to preserve it for this use.	People are used to the area being an underwater park, and there are already marker buoys in place.
Lover's Cove_SMR_LAP_B_1	None Specified	Included existing MPA, increases protection.	None Specified
Begg_Rock_SMR_LAP_B_1	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-2,O-3,O-4,O-5), G6: (O-1,O-3,O-4)	A unique portion of west islands bioregion due to its southwesterly position exposed to cold California current from north and lesser warm-water influences from SoCal Eddy. An offshore pinnacle with steep ridges, deep water soft and hard bottom habitat. Purple hydrocoral population. Entire rock is surrounded by an ASBS and is already part of the California Coastal National Monument.	None Specified
San Nicolas Pending Military Closure	None Specified	This is an APPROXIMATE polygon representing the Federal Closure at San Nicolas Island called Area Alpha	None Specified
San Clemente Pending Military Closures 1	None Specified	This is an APPROXIMATE polygon representing the Federal closure on San Clemente Island called SWAT-1	None Specified
San Clemente Pending Military Closures 2	None Specified	This is an APPROXIMATE polygon representing the Federal Closure located on the east side of San Clemente Island called SWAT-2.	None Specified
Richardson Rock_SMR	N/A	N/A	N/A

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Judith Rock SMR	5583	West Channel Islands	See MarineMap	SMR	TBD	All take is prohibited	None Specified
Harris Point SMR	5573	West Channel Islands	See MarineMap	SMR	TBD	All take is prohibited	None Specified
South Point SMR	5582	West Channel Islands	See MarineMap	SMR	TBD	All take is prohibited	None Specified
Carrington Point SMR	5575	West Channel Islands	See MarineMap	SMR	TBD	All take is prohibited	None Specified
Skunk Point SMR	5581	West Channel Islands	See MarineMap	SMR	TBD	All take is prohibited	None Specified
Painted Cave SMCA	5576	Mid Channel Islands	See MarineMap	SMCA	TBD	Take of all living marine resources is prohibited except for the recreational take of lobster and pelagic finfish.	None Specified
Gull Island SMR	5574	Mid Channel Islands	See MarineMap	SMR	TBD	All take is prohibited	None Specified
Scorpion SMR	5577	Mid Channel Islands	See MarineMap	SMR	TBD	All take is prohibited	None Specified
Footprint SMR	5580	Mid Channel Islands	See MarineMap	SMR	TBD	All take is prohibited	None Specified
Anacapa Island SMCA	5578	Mid Channel Islands	See MarineMap	SMCA	TBD	Take of all living marine resources is prohibited except for the recreational take of lobster and pelagic finfish and the commercial take of spiny lobster.	None Specified
Anacapa Island SMR	5579	Mid Channel Islands	See MarineMap	SMR	TBD	All take is prohibited	None Specified
Santa Barbara Island SMR	5584	Mid Channel Islands	See MarineMap	SMR	TBD	All take is prohibited	None Specified

SMCA = state marine conservation area SMP = state marine park SMR = state marine reserve
TBD = To be determined

Bioregions:

1. North Mainland (Point Conception to Marina Del Rey)
2. South Mainland (Marina del Rey to the U.S.-Mexico border)
3. West Channel Islands (San Miguel, Santa Rosa and San Nicolas islands)
4. Mid-Channel Islands (Santa Cruz, Anacapa and Santa Barbara islands)
5. East Channel Islands (Santa Catalina and San Clemente islands)

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Harris Point SMR	N/A	N/A	N/A
South Point SMR	N/A	N/A	N/A
Carrington Point SMR	N/A	N/A	N/A
Skunk Point SMR	N/A	N/A	N/A
Painted Cave SMCA	N/A	N/A	N/A
Gull Island SMR	N/A	N/A	N/A
Scorpion SMR	N/A	N/A	N/A
Footprint SMR	N/A	N/A	N/A
Anacapa Island SMCA	N/A	N/A	N/A
Anacapa Island SMR	N/A	N/A	N/A
Santa Barbara Island SMR	N/A	N/A	N/A